3/9 - Let's Keep Spinning

- Back to our two processes that were deferring/flagging
  - If we combine the two, we get the Peterson lock
  - We'll prove that it has the mutual exclusion and non-starvation properties
- Keep the structure from our deferential/polite locks
  - Start by raising flag
  - Defer to other process
  - Then, we can go either if:
    - The other process has deferred to us, *or*
    - The other process isn't interested (has lowered flag)
- We can run it and it looks fairly good
  - We only saw one good example
  - To be completely confident that it's always good, we should actually verify this with `spin -run classpeterson.pml`
- Remember: the scheduler in spin can be evil
  - In other words, it won't guarantee fairness (may never let a process go)
  - You can tell it to be fair with the `-f` flag